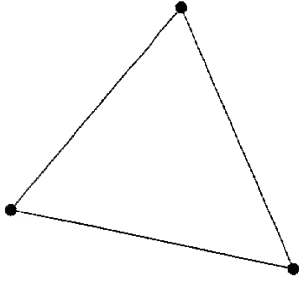
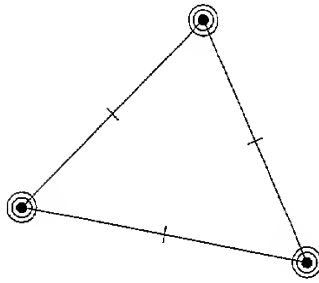


Fig. 1

Linear Element



Argyris-Triangle



Clough-Tocher Element

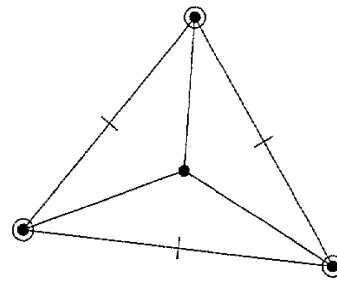
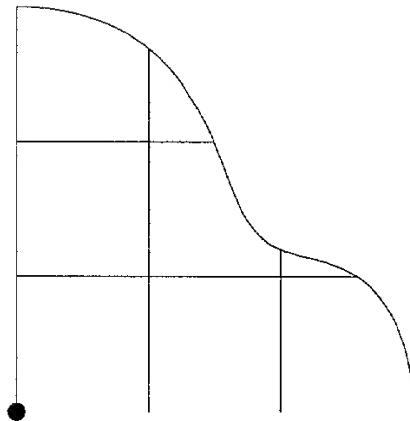


Fig. 2a
Prior Art

WEB-Spline



Type	Dimension	Degree	Smoothness	Parameters
linear element	d	1	0	$d + 1$
Argyris triangle	2	5	1	21
Clough-Tocher element	2	3	1	12
WEB-Spline	d	n	$n - 1$	1

Fig. 2b

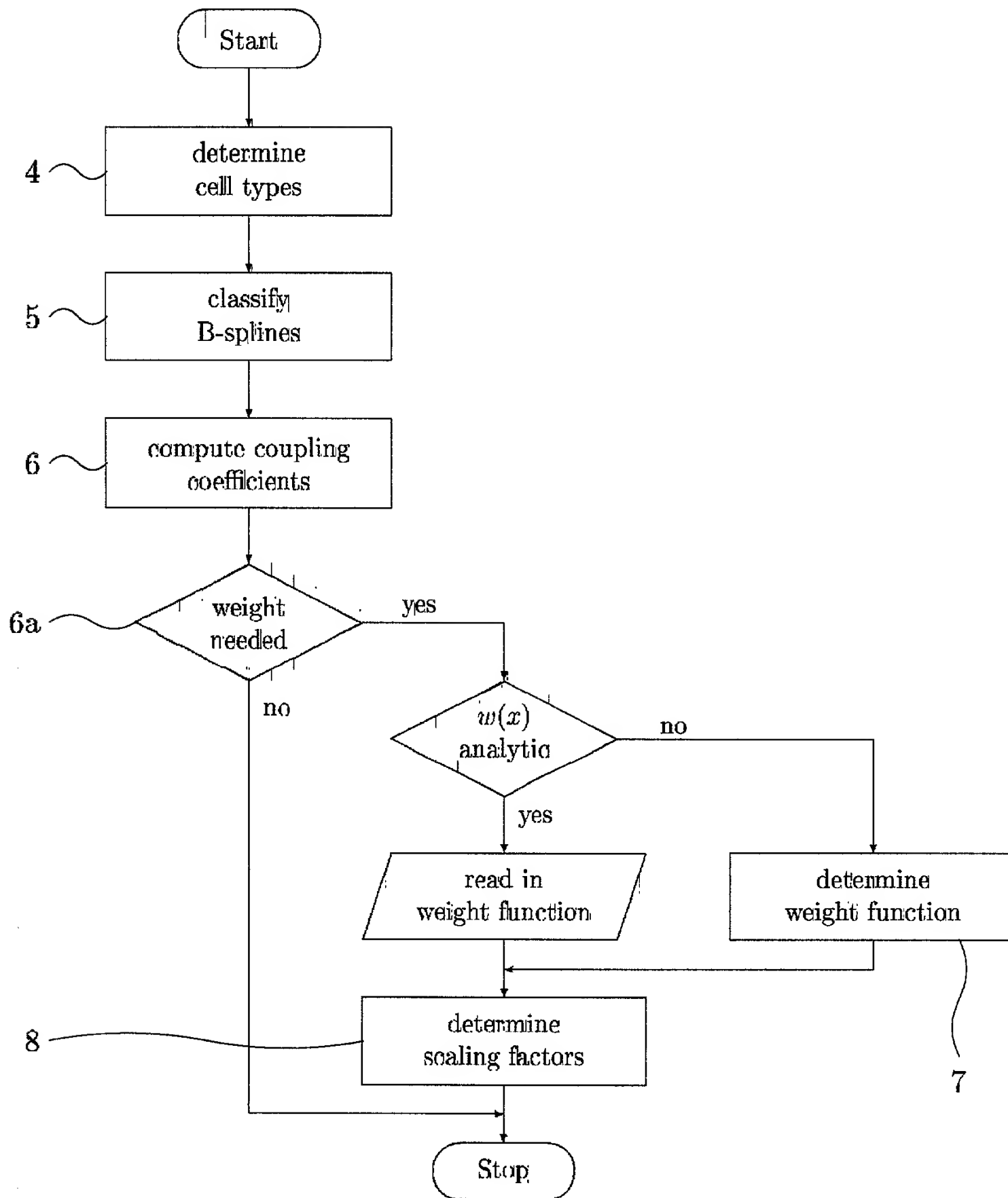


Fig. 3

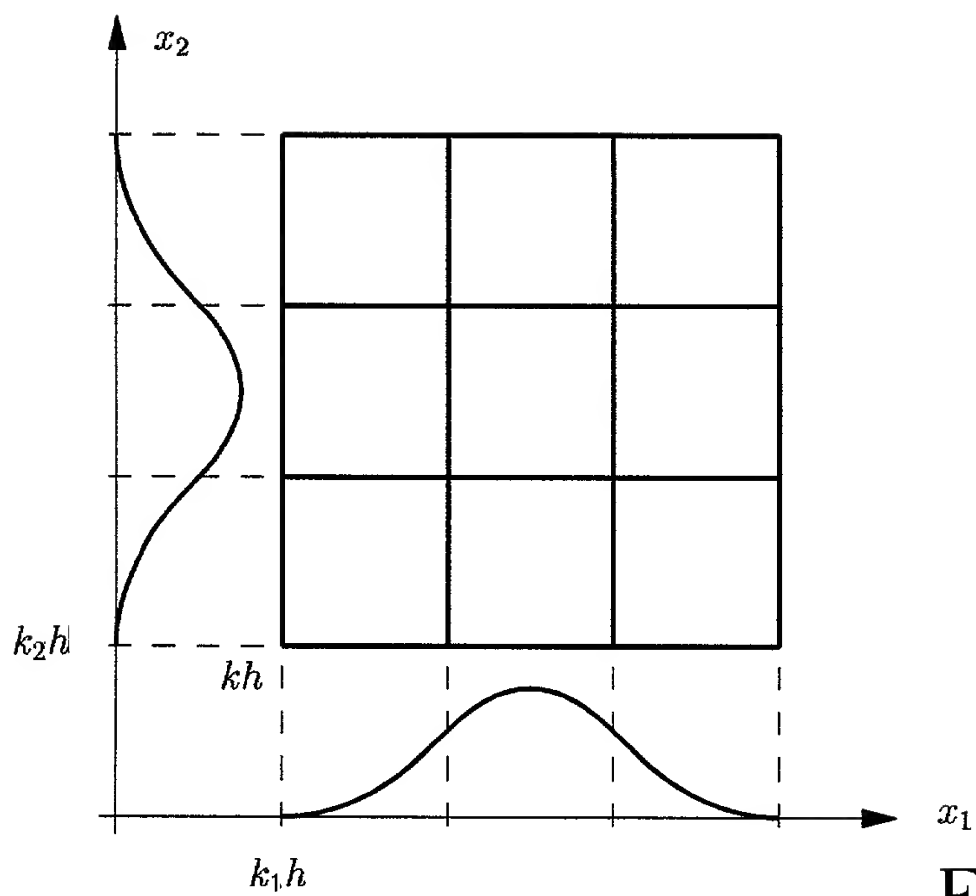


Fig. 4a

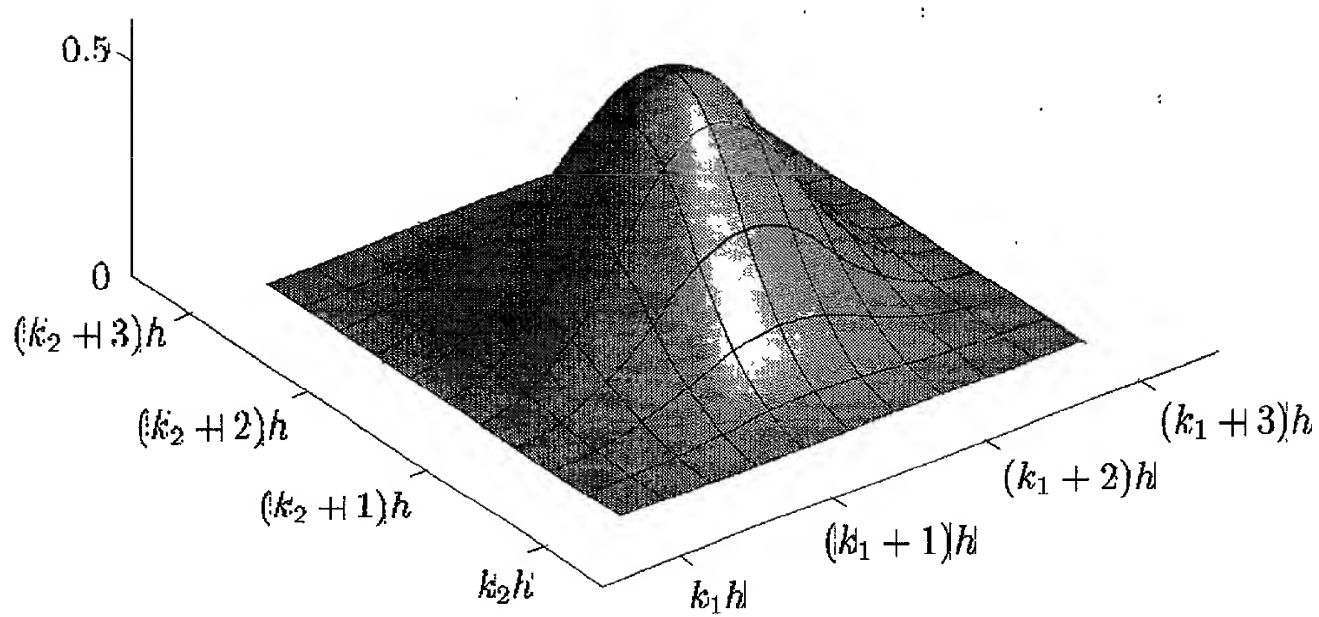


Fig. 4b

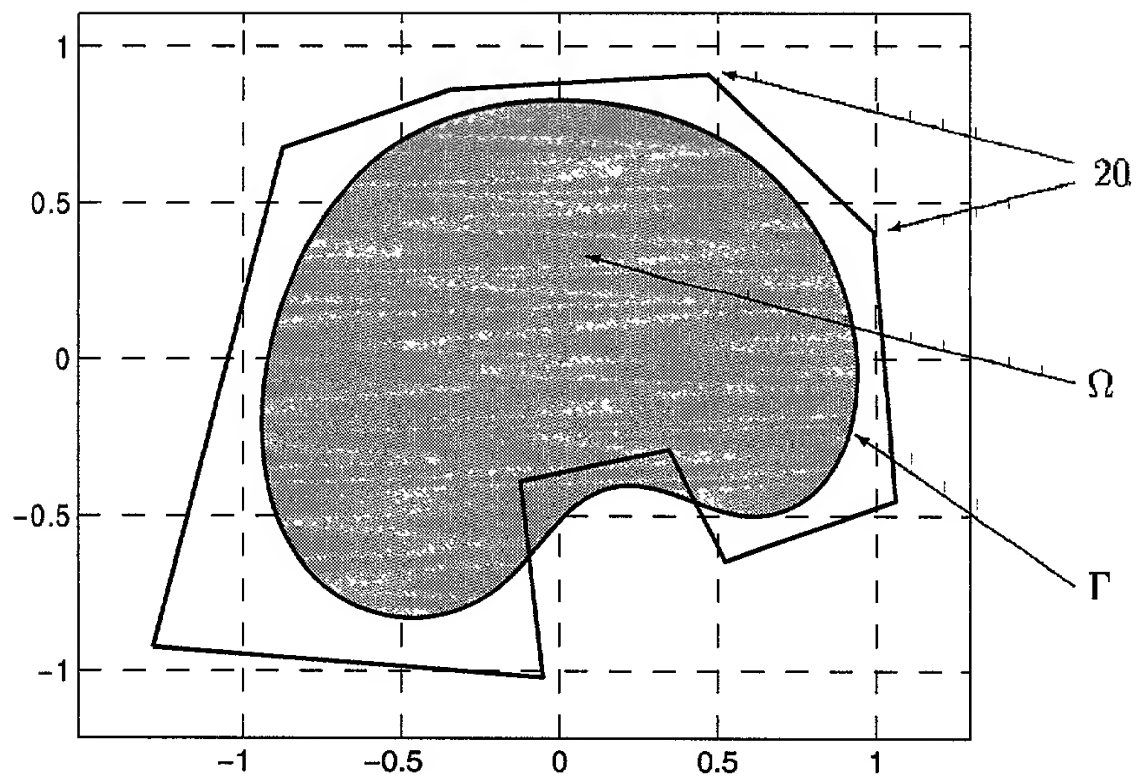


Fig. 5a

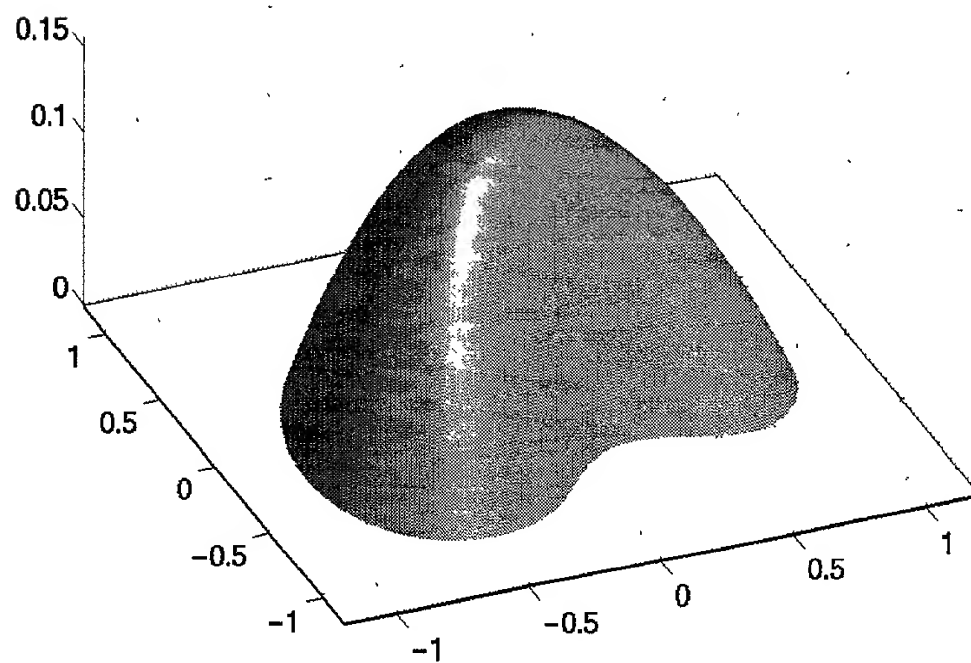


Fig. 5b

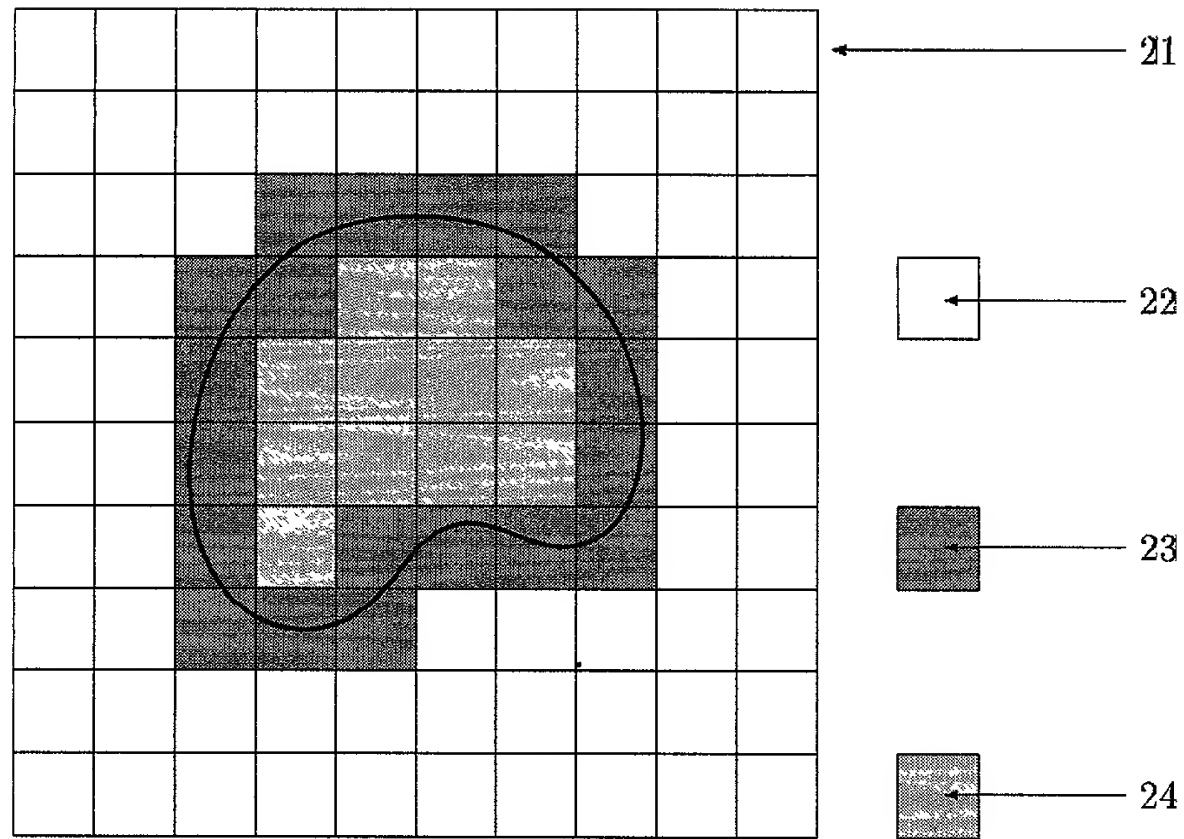


Fig. 6

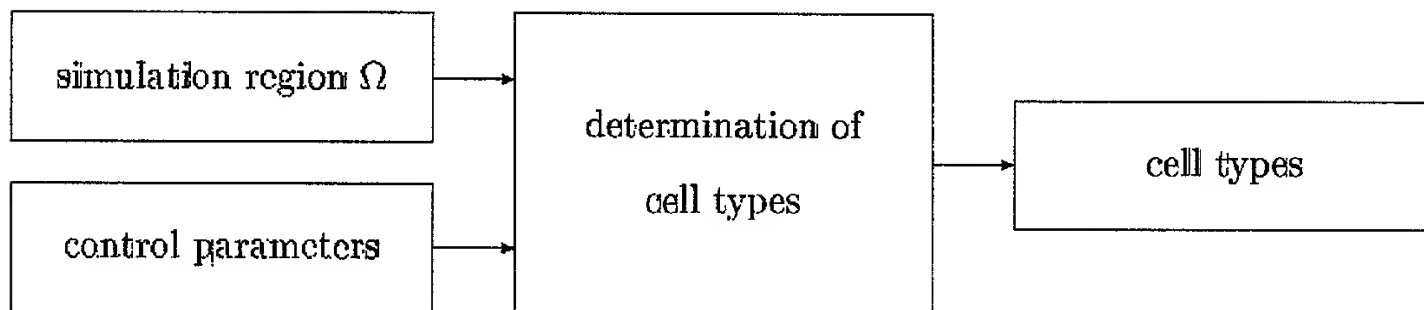


Fig. 7

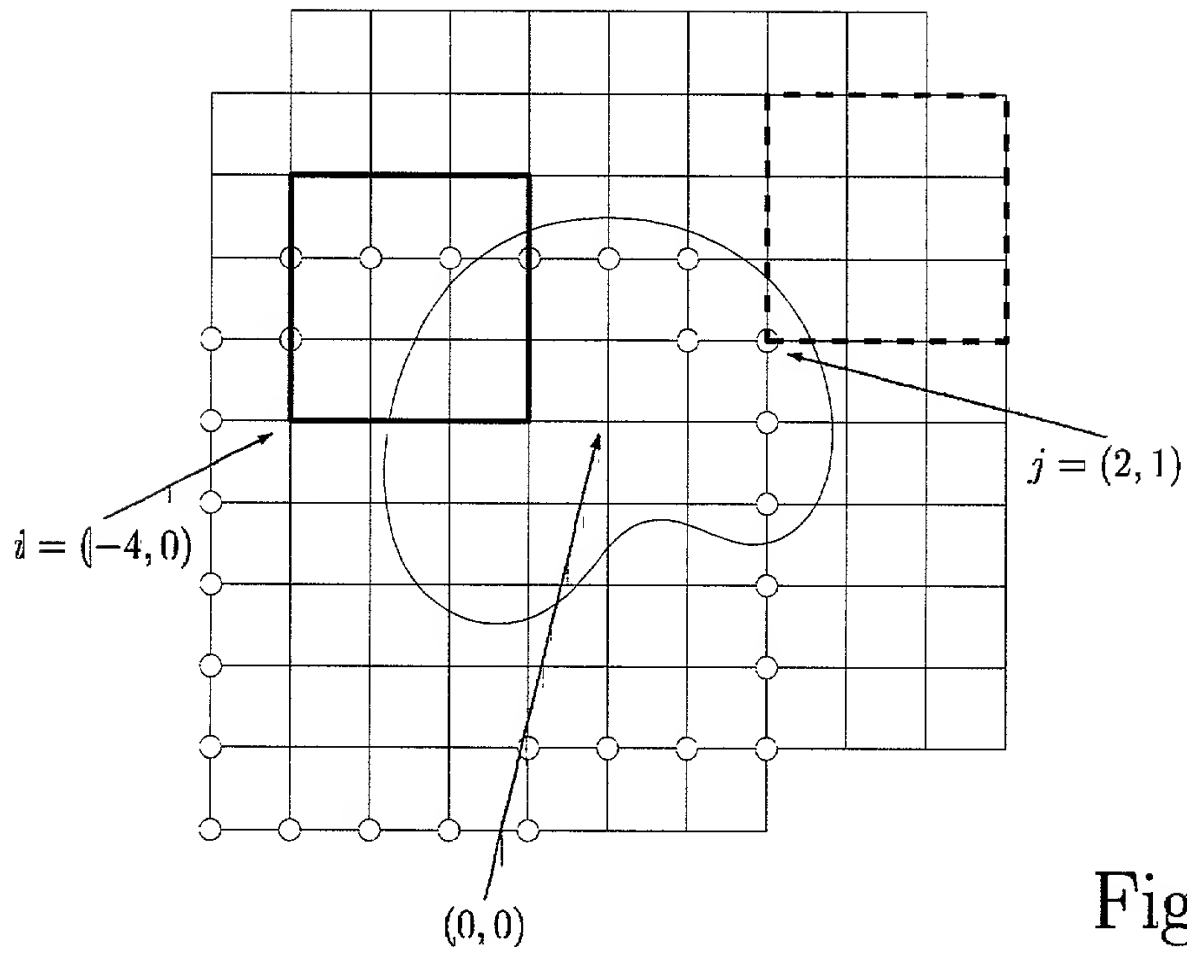


Fig. 8

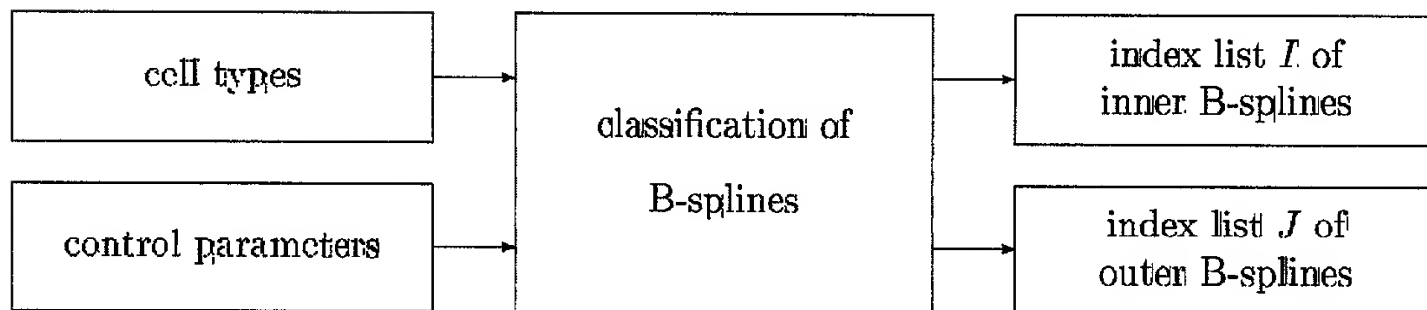


Fig. 9

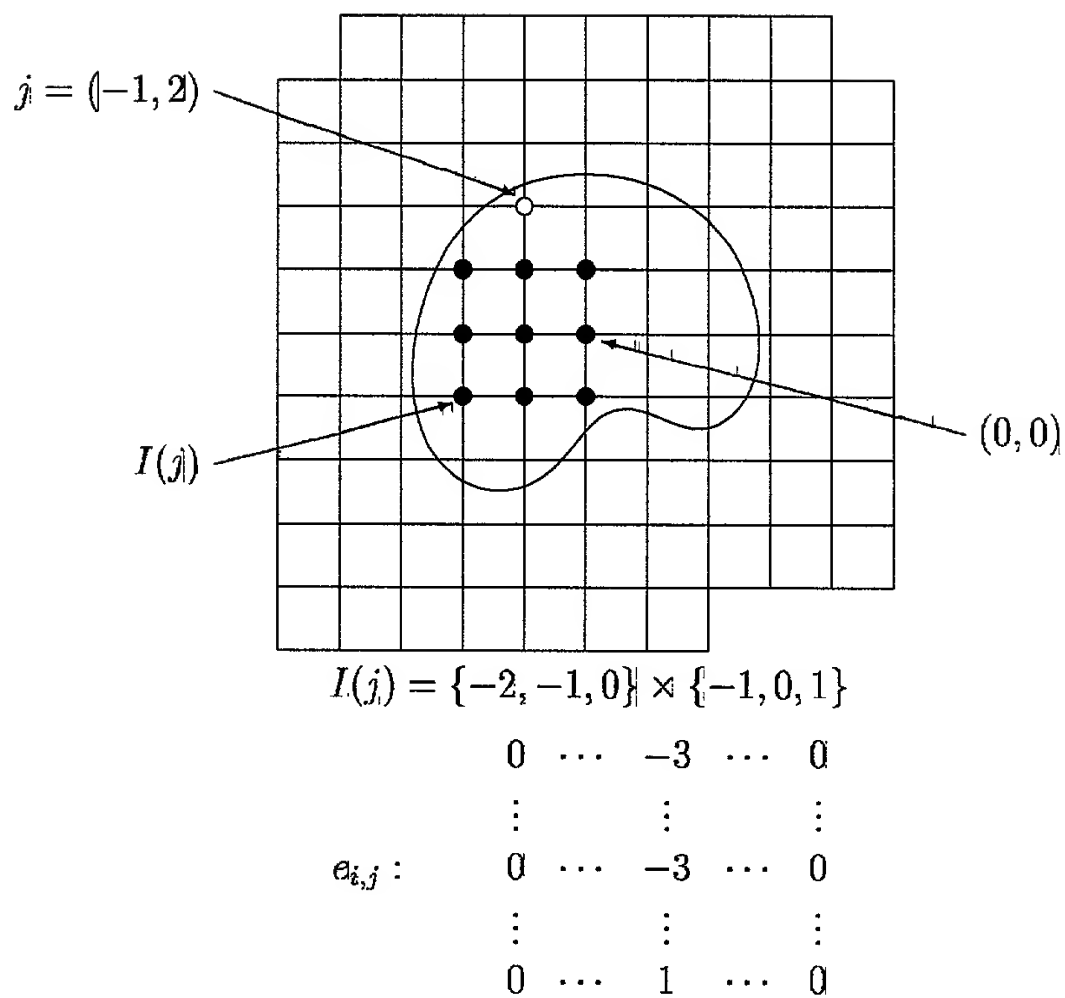


Fig. 10

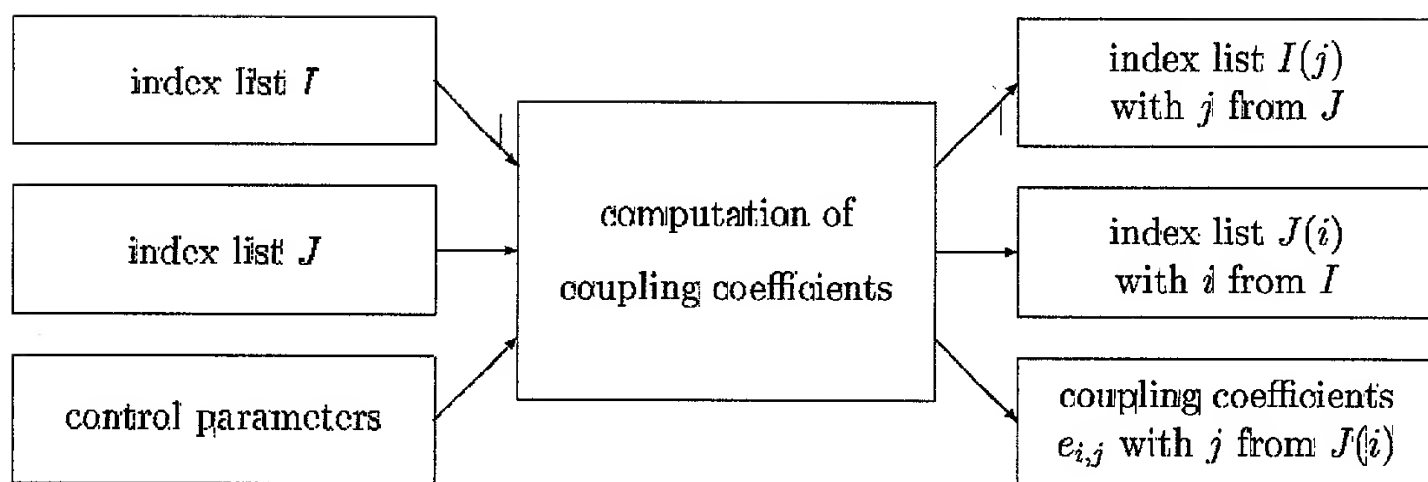


Fig. 11

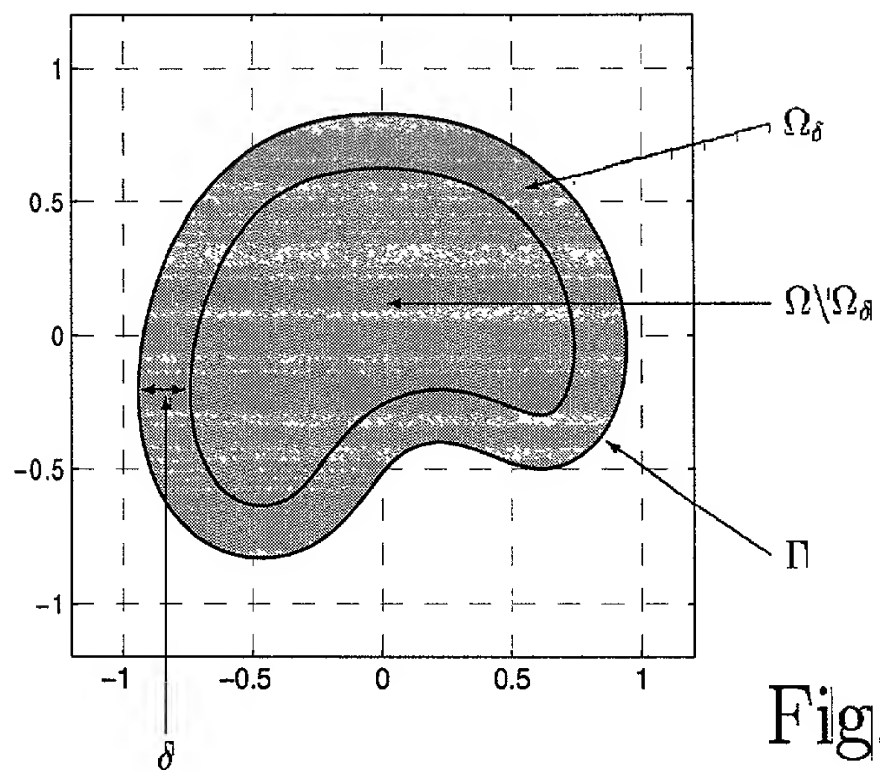


Fig. 12a

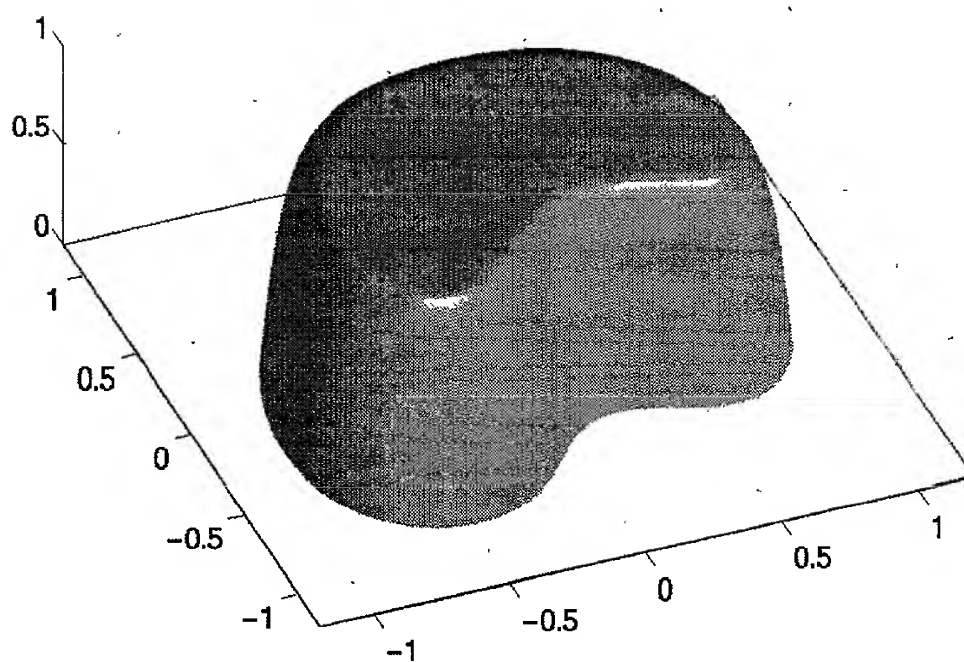
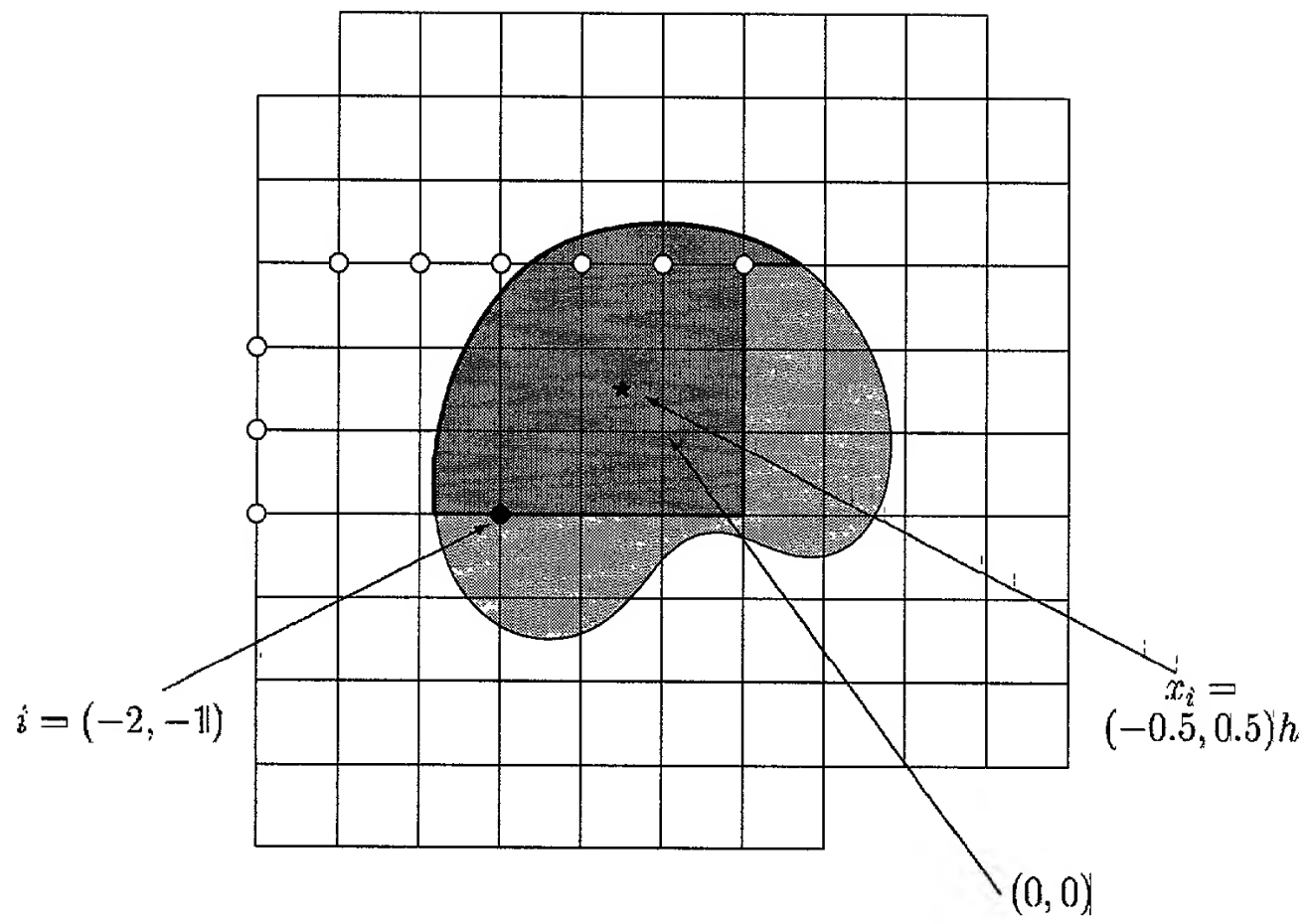


Fig. 12b



$$J(i) = \{(-5, -1), \dots, (-5, 1), (-4, 2), \dots, (1, 2)\}$$

$$c_{i,j} : \begin{matrix} \cdot & \dots & -3 & \dots & 0 & \dots & 1 & \dots & 0 & \dots & 0 & \dots & 1 \\ \vdots & & & & & & & & & & & & \\ -3 & & & & & & & & & & & & \\ \vdots & & & & & & & & & & & & \\ 0 & & & & & & & & & & & & \\ \vdots & & & & & & & & & & & & \\ 1 & & & & & & & & & & & & \end{matrix}$$

Fig. 13

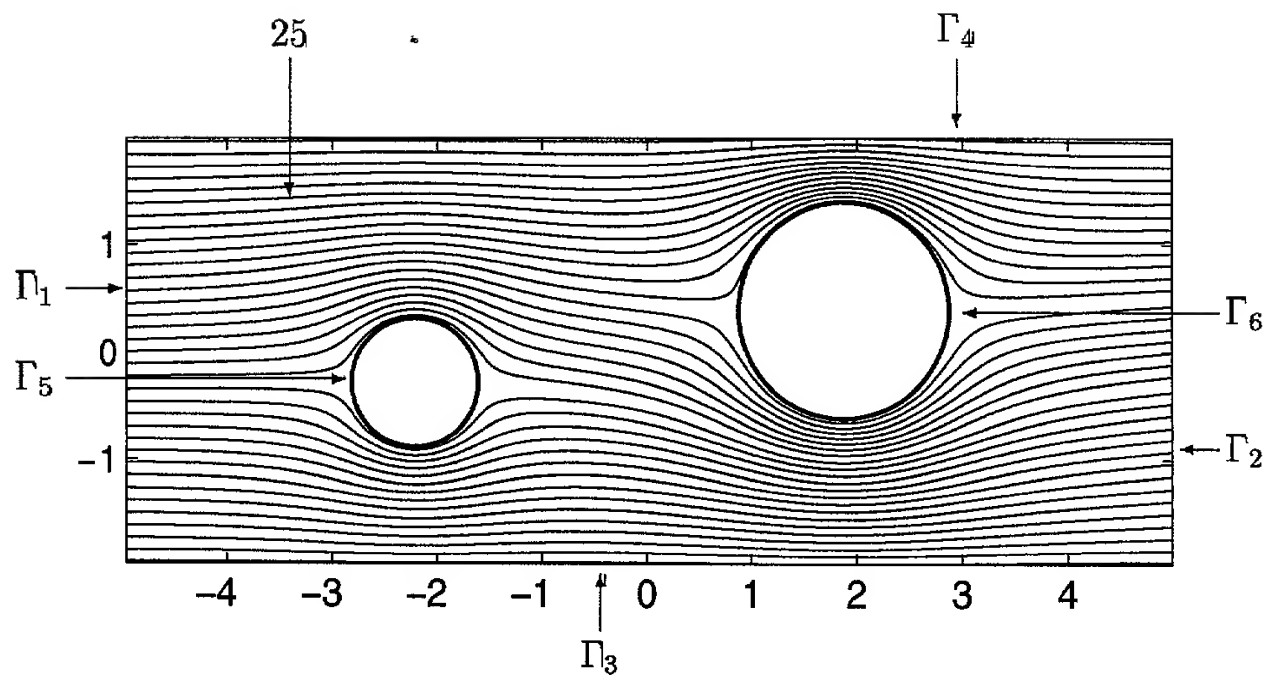


Fig. 14a

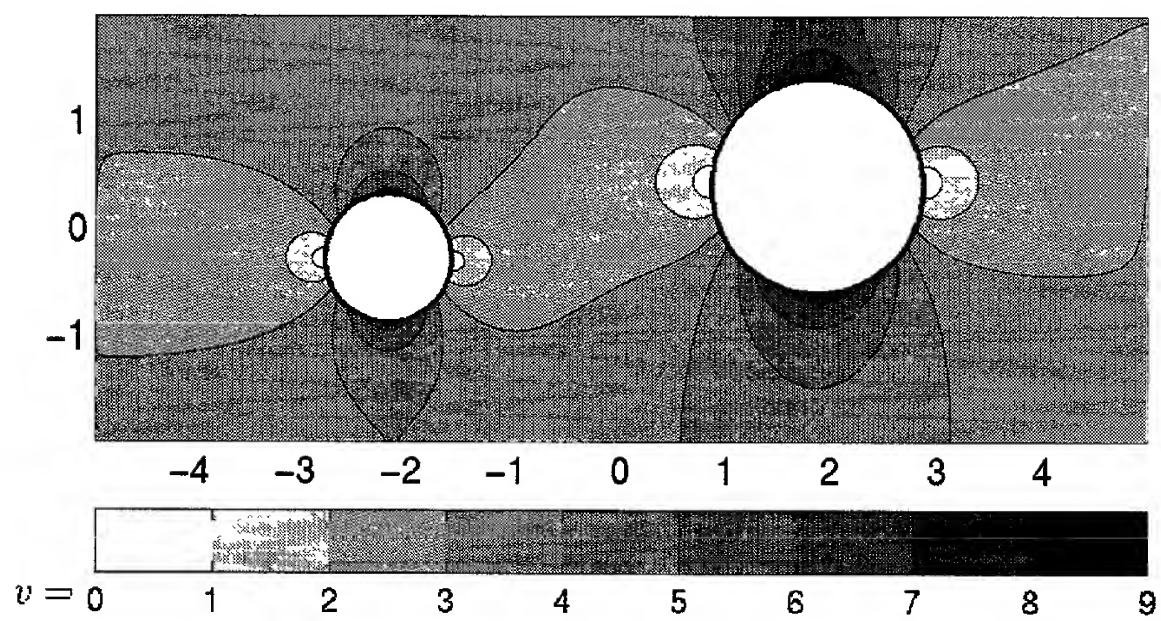


Fig. 14b

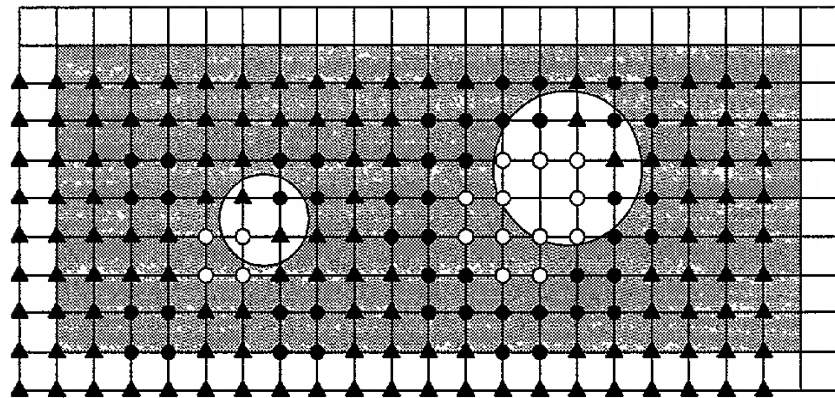


Fig. 15a

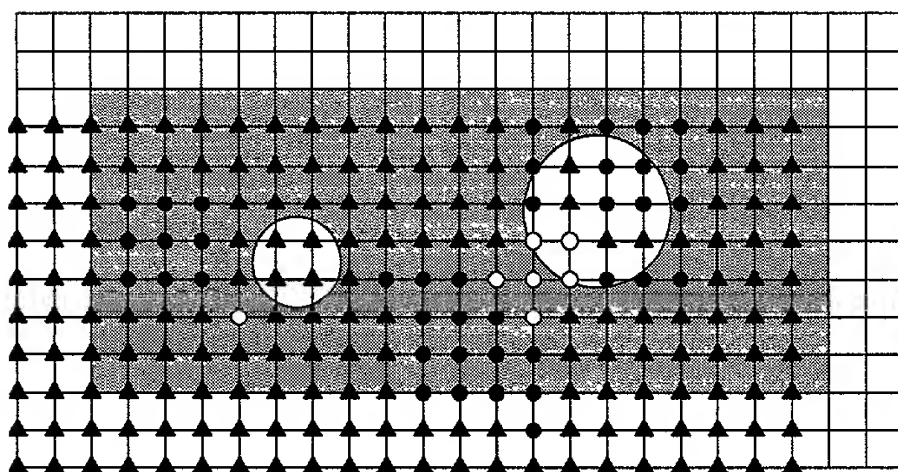


Fig. 15b

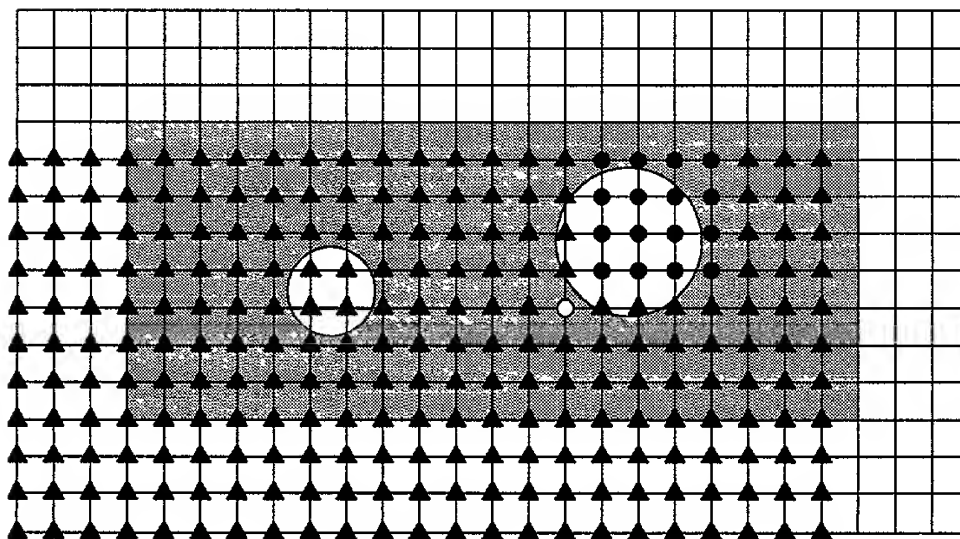


Fig. 15c

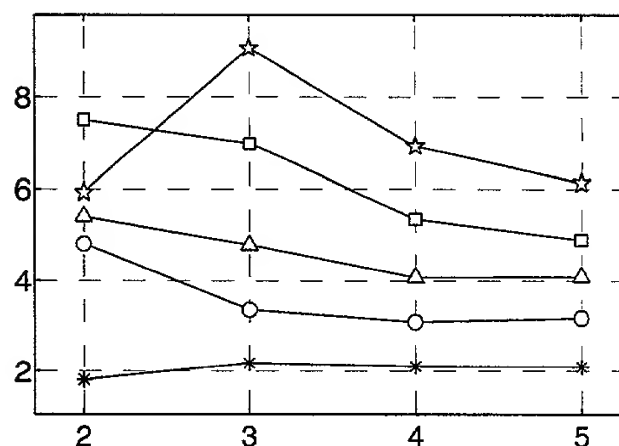
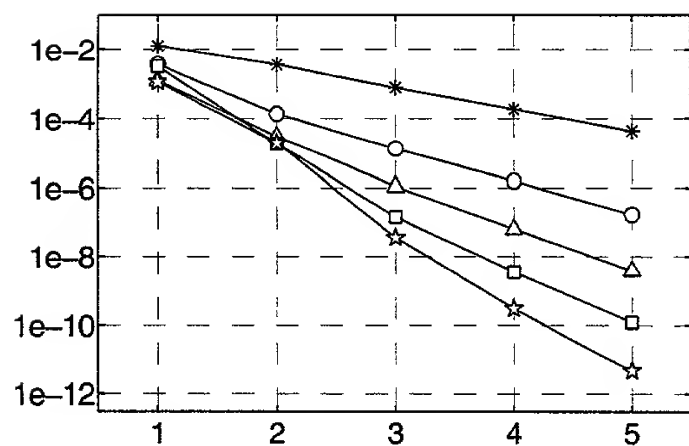


Fig. 16a

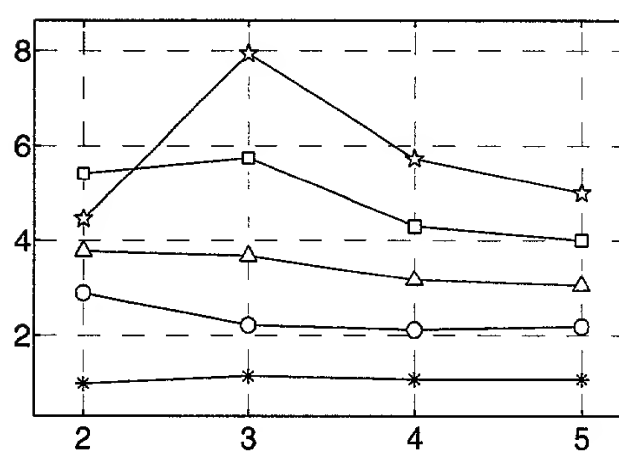
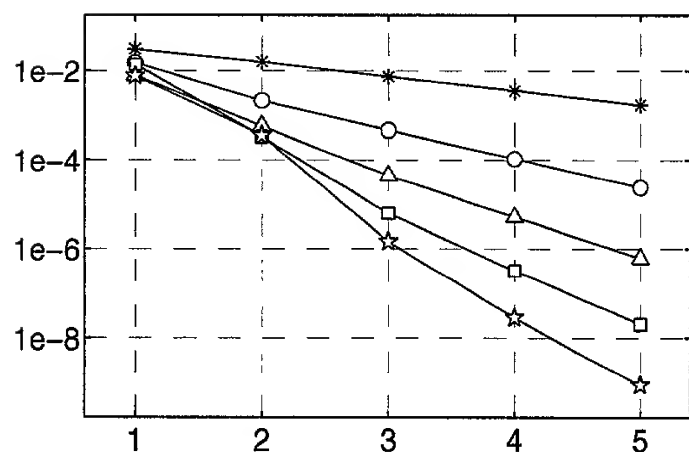


Fig. 16b

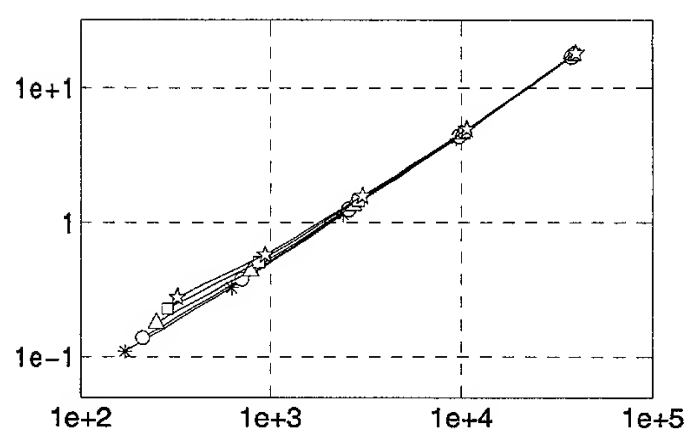
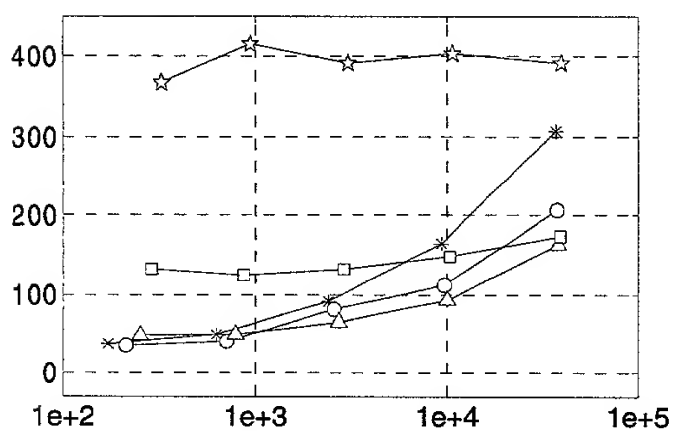


Fig. 16c

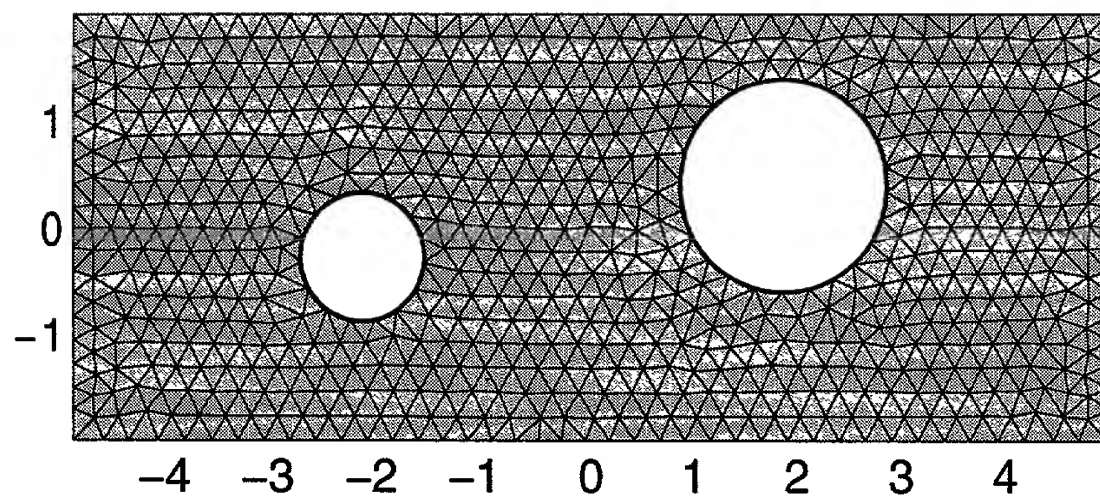


Fig. 17a

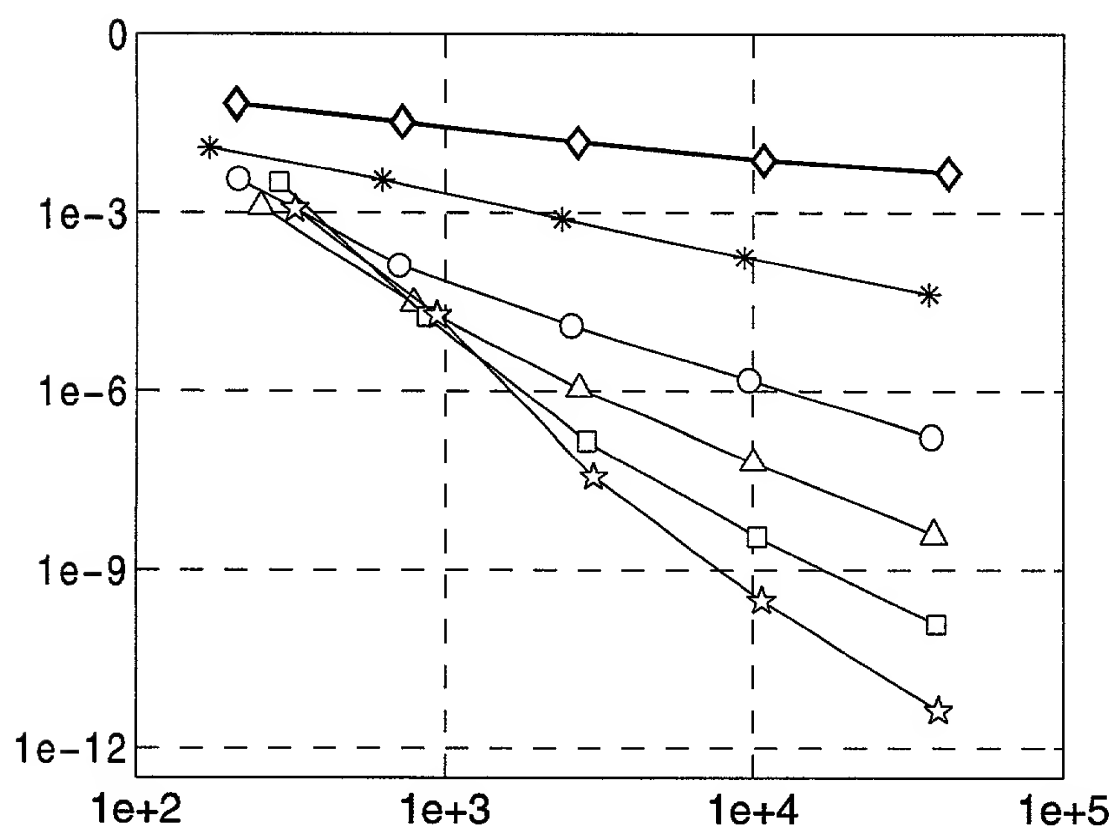


Fig. 17b

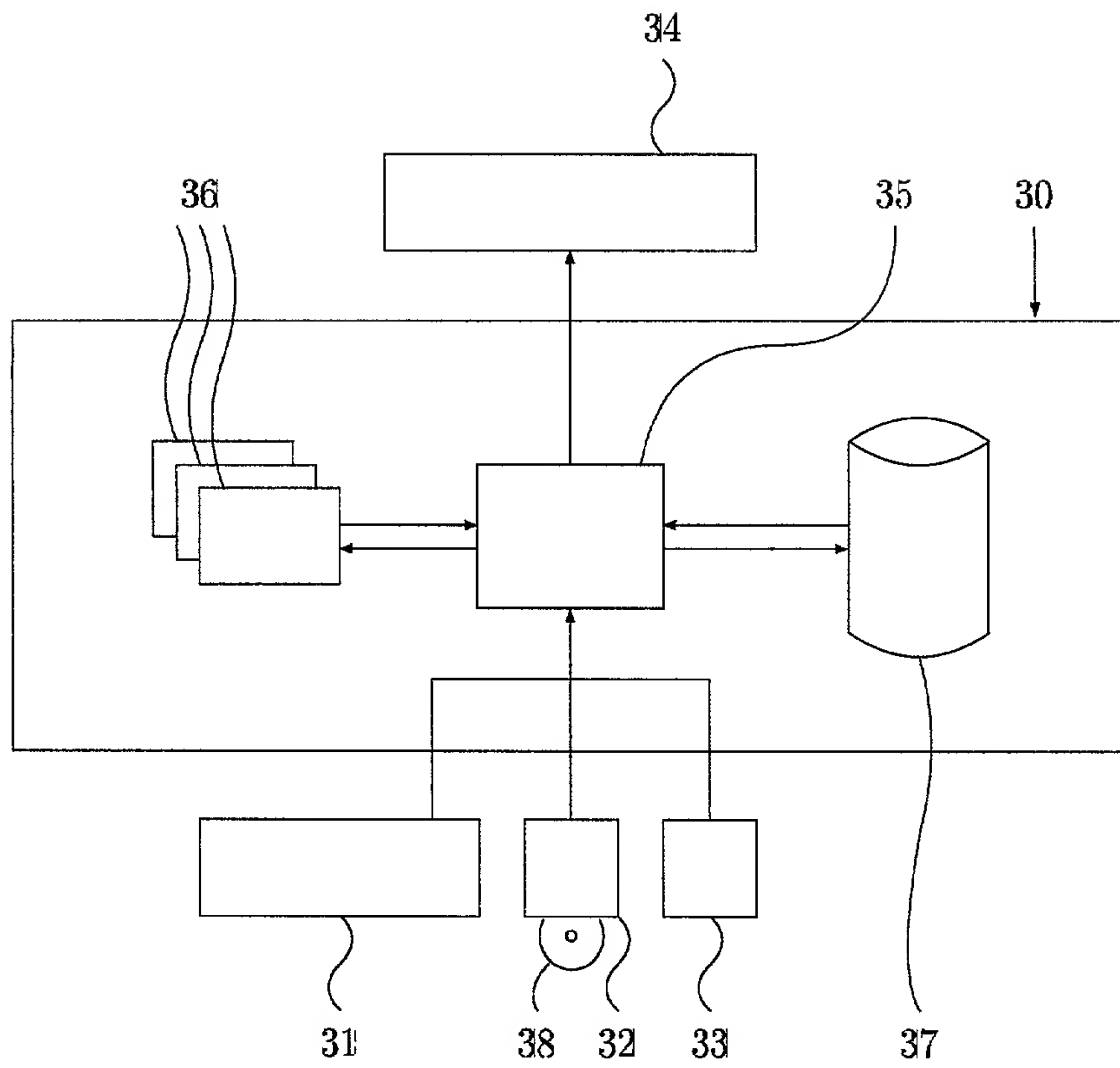


Fig. 18